

## ABSTRACT OF THE INVENTION

The present invention provides a differential amplifier that improves balance and signal linearity. The inventive  
5 amplifier includes first and second differential converters. The first differential converter includes a first grounded emitter amplifier and a first grounded base amplifier. The second differential converter includes a second grounded emitter amplifier and a second grounded base amplifier. A  
10 first output signal of the differential amplifier is generated by coupling a first differential output signal of the first grounded emitter amplifier and a first differential output signal of the second grounded base amplifier. A second output signal of the differential amplifier is  
15 generated by coupling a second differential output signal of the first grounded base amplifier and a second differential output signal of the second grounded emitter amplifier.

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